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(54) MOTOR TOOTHBRUSH

(57) Abstract:

PURPOSE: To provide a low price motor toothbrush with little noise and composed of a reduced number of parts.

CONSTITUTION: On the main body 1 side, the shaft rotation of a motor 14 is converted to linear reciprocal oscillation of a first output shaft by an eccentric cam 16 coaxial to a crown gear 16. On the exchanging brush 2 side, a hook part 30a at the tip of a second output shaft 30 is engaged with an engaging hole 25c of a toothbrush head 25 to convert the linear reciprocal oscillation to rotational oscillation. The main body 1 and the exchanging brush part 2 can be connected by inserting and pushing an inner diameter part 2n into a neck part 1h and simultaneously a connecting part 19b is fitted and connected into a fitting part 30b of a second output shaft 30 to connect both output shafts. Since the dislocation quantity of the output

shaft by rotation of the eccentric cam shaft 16a is set at about 90° against the rotation angle of the tooth brush head 25, the toothbrush head 25 oscillates switching the rotation direction within a constant angle range with little noise.

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